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Water Supply Outlook For Utah



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

UTAH STATE DEPARTMENT of NATURAL RESOURCES
-- DIVISION of WATER RIGHTS

AS OF
FEB. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

|||||

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In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

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SNOW SURVEY SECTION
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PROSPECTIVE WATER SUPPLIES

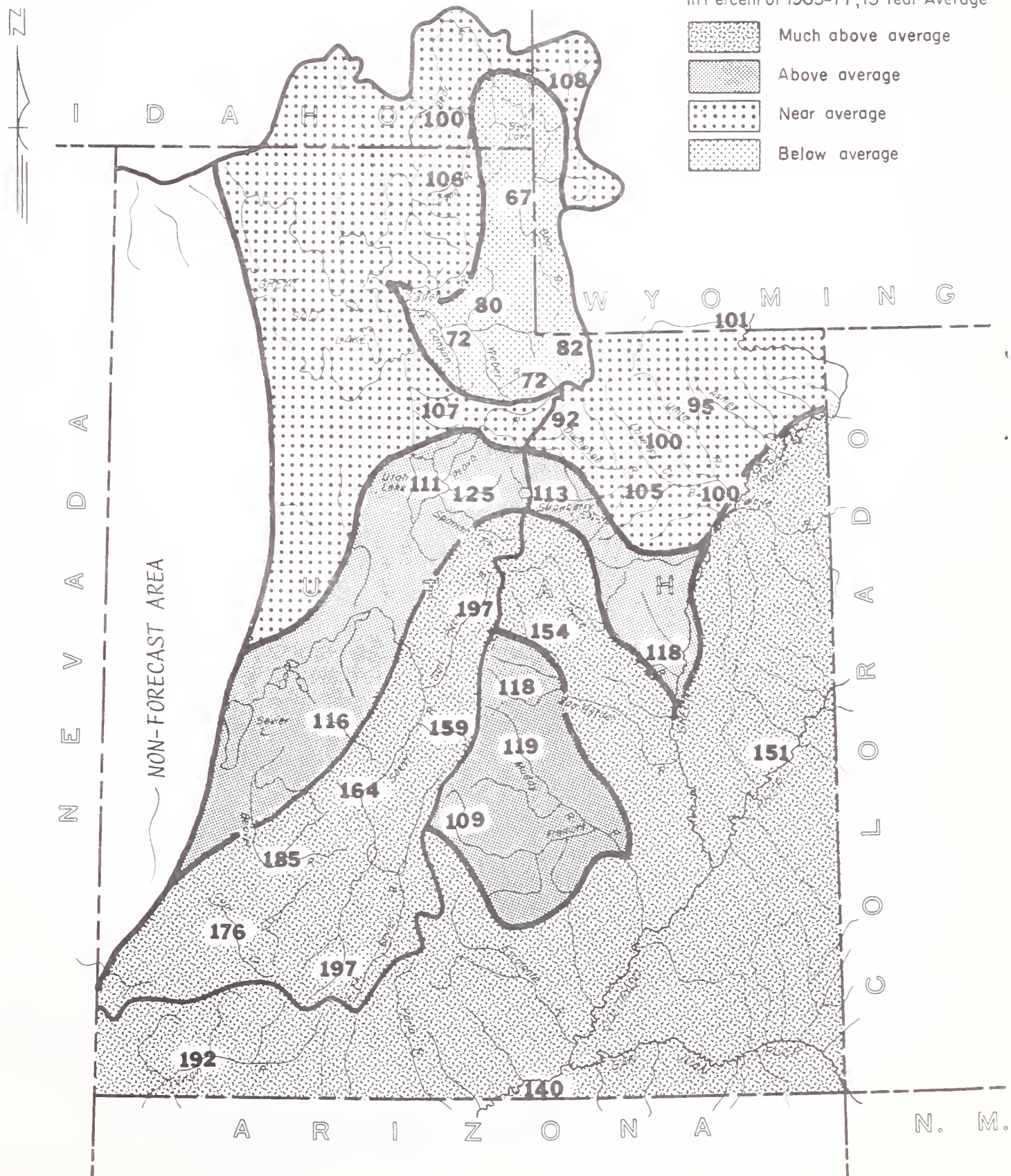
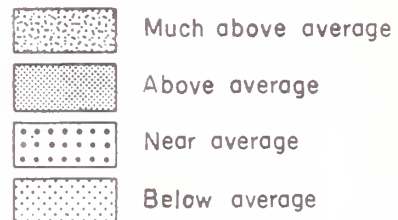
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

FEBRUARY 1, 1979

Approximate Date

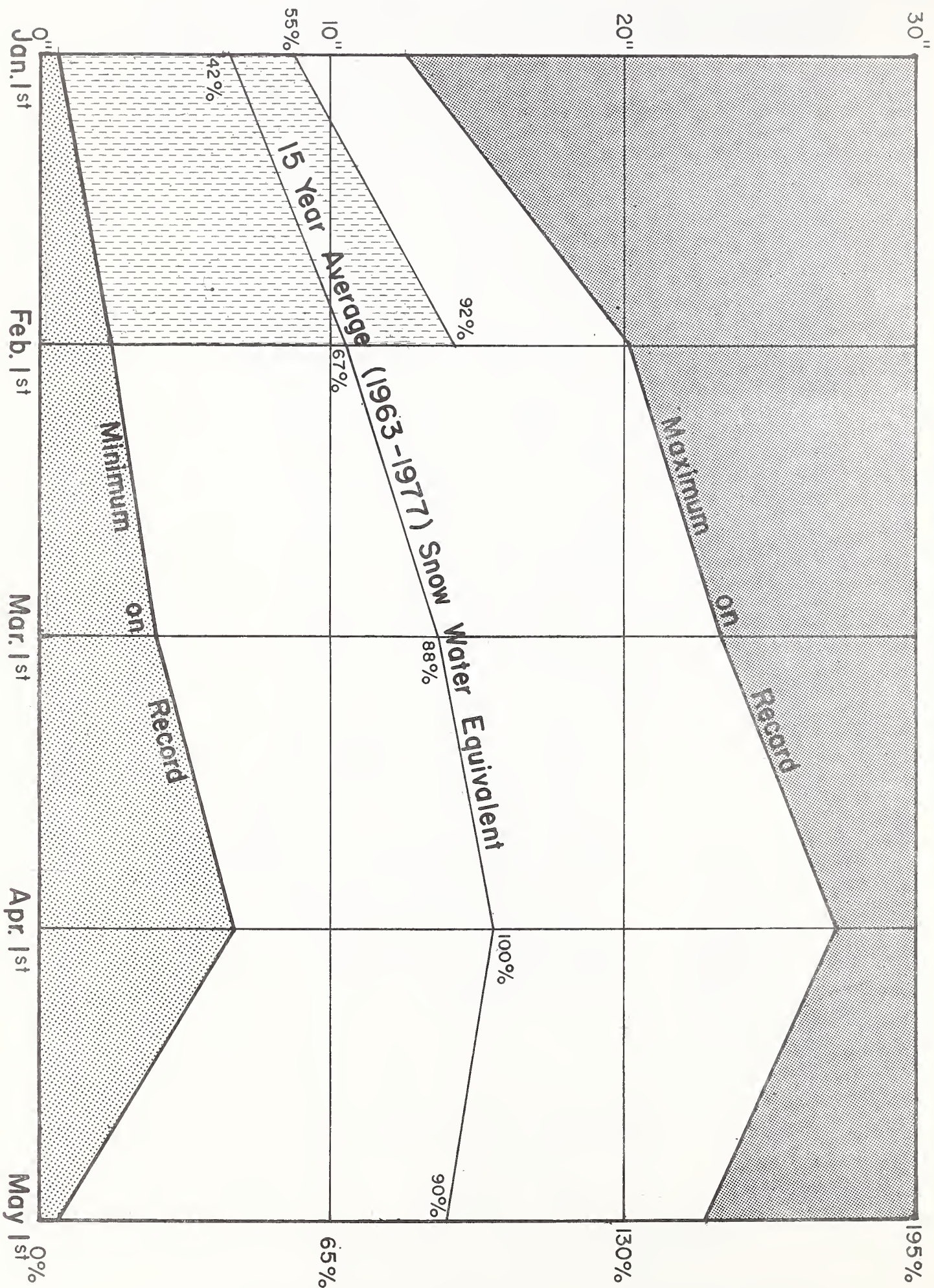


FORECAST STREAM FLOW
in Percent of 1963-77, 15 Year Average



UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses



PERCENT OF APRIL 1st SNOW WATER EQUIVALENT

1979 Snowpack



WATER SUPPLY OUTLOOK

as of
FEBRUARY 1, 1979

* * * * *
* Utah's 1979 water supply outlook ranges from slightly *
* below average on the Bear and Weber Rivers to much *
* above average on the Virgin and Upper Sevier in southern *
* Utah. Snow cover ranges from near average in northern *
* Utah to better than twice average in southern Utah. *
* Reservoir storage is generally above average except at *
* Sevier River reservoirs and Uintah Basin reservoirs. *
* Streamflow forecasts range from 67% of average on the *
* Bear at Randolph to 247% for the East Fork Sevier. *
* * * * *

SNOW COVER

Snow cover ranges from 98% of average along the Salt Lake front to 233% on the Virgin River. The Upper Sevier is 216% of the February 1 average, Beaver River is 176%, and the Lower Sevier 117%. Uintah Basin is 140% of average, Bear River is 112%, Weber River 104%, Ogden 124%, Price 134%, and San Rafael 122%.

PRECIPITATION

Precipitation at mountain locations for January ranged from 20 to 30% below average in Uintah Basin to better than twice average in southern Utah. Accumulated amounts for the October-January period range from near average in the northern part of the state to twice average on the Virgin River.

SOIL MOISTURE

Soil moisture is generally slightly below average to near average in northern Utah to above average in southern Utah.

RESERVOIR STORAGE

Reservoir storage is better than last year at this time and most reservoirs are near average except those on the Sevier River and Moon Lake and Steinaker in Uintah Basin.

STREAMFLOW FORECASTS

Streamflow forecasts range from below average on the Bear and Weber Rivers to much above average on the Virgin and Upper Sevier in southern Utah. Bear River forecasts range from 67% of the April-July average at Randolph to 108% for Thomas and Smith's Forks. Logan River is forecast 106% and Little Bear 97%. Pineview Inflow is forecast 109% and Weber River forecasts range from 72% at Oakley to 84% at Gateway. Uintah Basin forecasts range from 92% on the Upper Duchesne to 112% on Ashley Creek. Tributaries of Utah Lake are forecast from 101% for the Provo at Hailstone to 115% for Spanish Fork. Price River is forecast 141%, Huntington Creek 154%,

WATER SUPPLY OUTLOOK (continued)

Cottonwood 108%, Ferron 118%, Muddy 119%, and Seven Mile Creek 109%.
Mill Creek near Moab is forecast 196% of average, San Juan 185% at Bluff
and Lake Powell Inflow 140% of the April-July average.

All areas are expected to have an adequate water supply except possibly
those depending on reservoir storage that is in short supply. These
reservoirs should receive enough inflow to give a near average supply
if at least average snow fall occurs for the next two months.

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



SNOW COVER ranges from 105% of the February 1 average for the 1963-77, 15 year period to 117% of average on the Lower Bear. Logan River snow cover is 114% of average. All three areas have less snow water content than last year at this time by 20 to 30%. This year's cold weather has limited snow water accumulation at the higher elevations.

SOIL MOISTURE is generally below average and is expected to absorb some snowmelt this spring.

STREAMFLOW FORECASTS range from 67% of the April-July average at Randolph to 108% on Thomas and Smiths Forks. Bear River at Utah-Wyoming line is forecast 82%, Woodruff 68%, and Harer 87%. Big Creek and Woodruff Creeks are forecast 107% and 95% respectively. Logan River and Blacksmith Fork are 106%, Cub River is forecast 100%, and Little Bear 97% of average for the April-June period.

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ²	Average ⁺
BEAR RIVER					
Bear nr UT-Wyo. State Line	93	82	Apr-July	115	114
Bear nr Woodruff	100	68	Apr-July	125	148
Woodruff Crk nr Woodruff, UT	17.4	95	Apr-July	15.5	18.4 ^b
Big Creek nr Randolph, Utah	4.5	107	Apr-July	--	4.2 ^b
Bear nr Randolph	80	67	Apr-July	51	120
Thomas Fork nr UT-Wy State Ln	38	108	Apr-Sept	54	35
Smith's Fork nr Border, Wyo.	130	108	Apr-Sept	159	120
Bear at Harer, Idaho ¹	288	87	Apr-Sept	278	332
Logan nr Logan ¹	125	106	Apr-July	136	118
Blacksmith Fork nr Hyrum	57	106	Apr-July	50	54
Little Bear nr Paradise	37	97	Apr-June	25	38
Cub River nr Preston, ID	52	100	Apr-Sept	64	52
1 - Observed flow corrected for change in storage and diversions					
2 - Provisional flows - Subject to correction					
b - Average of all past record less than 15 years					

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	15	76	112
UPPER BEAR RIVER	7	68	105
LOWER BEAR RIVER	8	83	117
LOGAN RIVER	6	81	114

RESERVOIR STORAGE (Thousand Acre Feet)

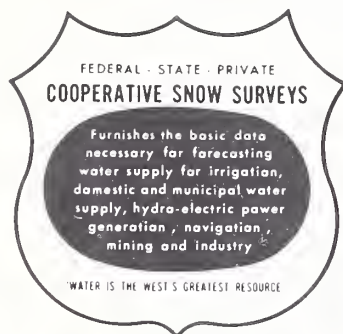
BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ⁺
BEAR RIVER	Bear Lake	1421.0	1003.7	774.8	1026.5
	Woodruff Narrows	26.5	17.3	4.2	19.5
LITTLE BEAR	Hyrum	15.3	10.2	10.1	10.6
	Porcupine	11.3	3.4	2.8	3.0
+ - 1963-77 15 year Average Period					
e - estimated					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ⁺
To begin March 1, 1979		

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WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



SNOW COVER ranges from 104% of average on the Weber River to 124% on the Ogden River. Individual snow courses vary from 104% at Monte Cristo on the top of the Ogden watershed to 141% at Sagebrush Flat. Weber River snow courses varied from 85% of average at Chalk Creek #2 to 133% at Farmington Lower. Smith & Morehouse was 96% and Parleys Summit 94%.

PRECIPITATION at mountain stations ranged from 85% of the January average at Smith & Morehouse to 154% at Causey Reservoir. The October-January accumulated precipitation ranged from 77% at Smith & Morehouse to 109% at Causey Reservoir.

SOIL MOISTURE is generally below average on these watersheds.

RESERVOIR STORAGE is above average on all reservoirs except Causey and Rockport which are slightly below average. Pineview has 52,600 acre feet (101%). Last year it held 36,400 acre feet on February 1. Rockport has 33,600 acre feet (96%) but last year held only 22,700, Echo has 63,700 acre feet (131%) now and last year it held only 41,600 acre feet at this time. East Canyon now holds 36,800 acre feet (133%) and last year it held only 19,900 acre feet on February 1. Lost Creek has 14,700 (114%) and held only 9,600 acre feet last year at this time.

STREAMFLOW FORECASTS range from 72% of average for the April-June period for the Weber at Oakley and East Canyon Creek to 109% for Pineview Inflow. Other Weber River forecasts are 75% of average for Rockport Inflow, 74% at Coalville and 84% at Gateway. Chalk Creek is expected to flow 74% of its April-June 15 year average, and Lost Creek 80% of average. The South Fork of the Ogden is forecast 107%, Hardscrabble 94% and Farmington Creek 100% of the 1963-77 15 year average. Reservoir storage is expected to provide average water supplies for those users under storage. Some water users on direct flow may have less than average water supplies late in the season unless conditions improve during the next two months.

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year 3	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	76	72	Apr-June	121	104
Rockport Reservoir Inflow ¹	84	75	Apr-June	--	112
Chalk Creek at Coalville	29	74	Apr-June	37	39
Weber nr Coalville	91	74	Apr-June	--	123
Lost Creek nr Croydon, Utah	14	80	Apr-June	--	17.4 ^b
East Canyon Creek nr Morgan ¹	18.8	72	Apr-June	--	26
Hardscrabble Crk nr Porterville	17.0	94	Apr-June	--	18.8
South Fork Ogden nr Huntsville	61	107	Apr-June	62	57
Pineview Reservoir Inflow ²	125	109	Apr-June	136	115
Weber at Gateway	258	84	Apr-June	--	308
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	8.1	100	Apr-July	--	8.1 ^b

- 1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U.S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 b - Average of all past record - less than 15 years
 e - Partly estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
OGDEN RIVER	4	97	124
WEBER RIVER	7	96	104

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	1.4	2.6	2.0 ^b
	Pineview	110.1	52.6	36.4	52.2
WEBER	East Canyon	48.1	36.8	19.9	27.6
	Echo	73.9	63.7	41.6	48.5
	Lost Creek	20.0	14.7	9.6	12.9
	Rockport	60.9	33.6	22.7	35.2
	Willard Bay	193.3	161.7	114.5	127.2 ^b

+ - 1963-77 15 Year Average Period

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
To begin March 1, 1979		

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STREAMFLOW FORECASTS range from 92% of average for Emigration Creek to 200% on Vernon Creek. Hobble Creek the next highest at 125%, Provo River forecasts are 101% at Hailstone, and 111% at Deer Creek Dam. American Fork is forecast 114%, Spanish Fork 115%, Payson Creek 111%, and Utah Lake Inflow 111% for the April-July period. Little Cottonwood is forecast 103%, Big Cottonwood 107%, Mill Creek 111%. Parleys Creek 97%, and City Creek 98% of average.

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		Thousand Acre Feet	
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1	110	101	Apr-July	--	109
Provo below Deer Creek Dam 1	135	111	Apr-July	--	122
American Fork nr American Fork	35	114	Apr-July	37	31
Hobble Creek or Springville	22	125	Apr-July	--	19.7 ^b
Strawberry Reservoir Inflow 1	59	113	Apr-July	67	52
Spanish Fork at Thistle	45	115	Apr-July	--	39 ^b
Payson Creek nr Payson	7.0	111	Apr-July	--	--
Utah Lake Inflow	270	111	Apr-July	--	244
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	39	103	Apr-July	--	38
Big Cottonwood nr SLC	41	107	Apr-July	42	38
Parley's Creek nr SLC	15.0	97	Apr-July	--	15.4
Mill Creek nr SLC	7.0	111	Apr-July	--	8.8
Emigration Creek nr SLC	4.5	92	Apr-July	--	4.9
City Creek nr SLC	10.5	98	Apr-July	--	10.7
TOOELE VALLEY					
Vernon Creek nr Vernon	2.0	200	Mar-July	--	1.0
Settlement Crk nr Tooele	issued on 4/1		Apr-July		

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	8	115	128
JORDAN RIVER & SALT LAKE	3	103	98
TOOELE VALLEY	2	136	131

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction
a - Partly estimated
+ - 1963-77 15 year average period

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SPANISH FORK	Strawberry	270.0	161.5	141.2	150.8
UTAH LAKE	Utah Lake	883.9	780.1	609.0	683.1
	Settlement Creek	1.2	0.6	0.3	--
	Vernon Creek	0.6	0.6	0.3	--
PROVO	Deer Creek	149.7	84.7	70.7	107.0

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
To begin March 1, 1979.		

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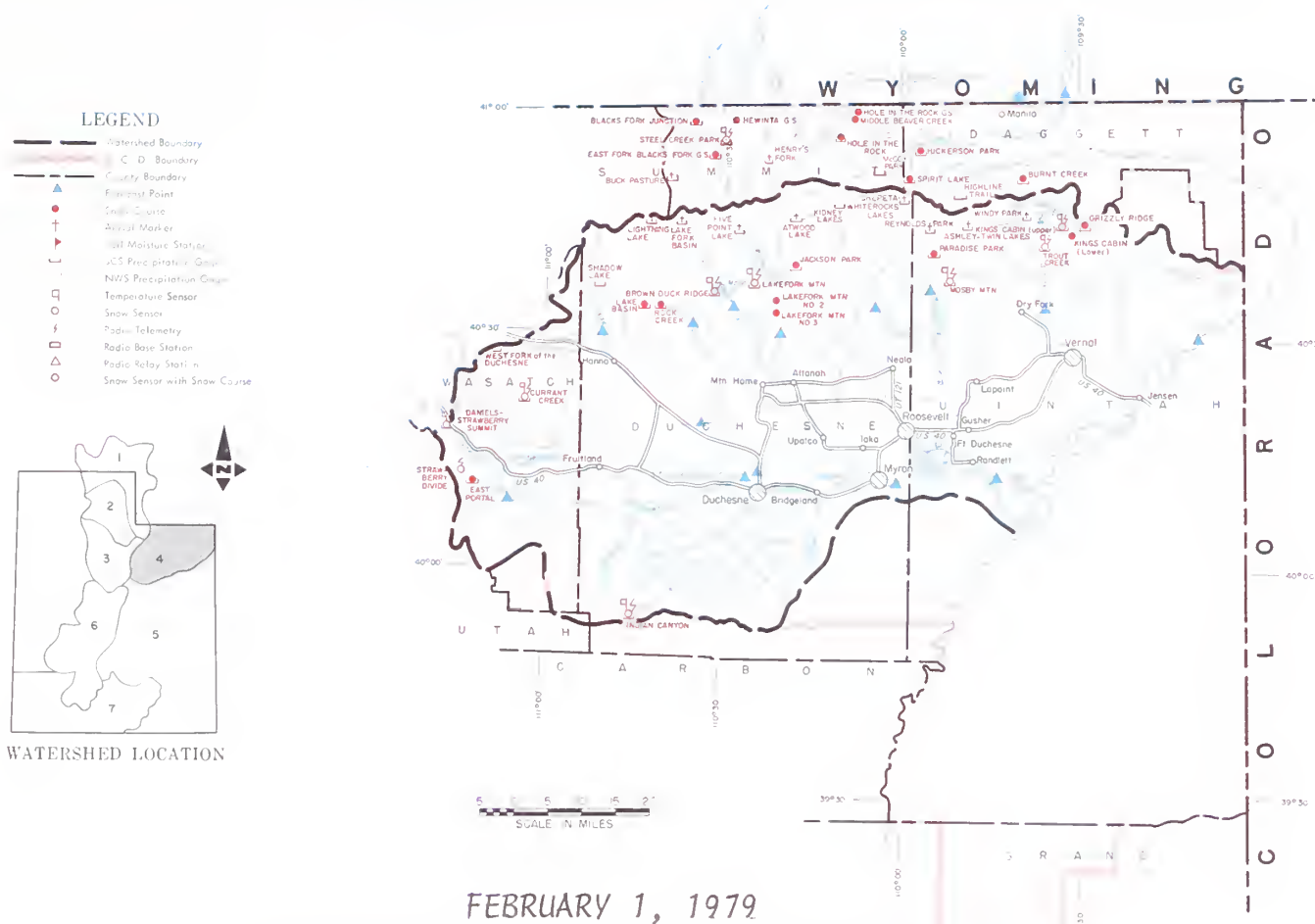
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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 129% of the February 1 average on Strawberry River to 150% at Lakefork Mountain on the Lakefork-Yellowstone Creeks. The Uintah-Whiterocks Rivers are 138% of average. Weather has prevented flying the high aerial markers as of this date.

PRECIPITATION at mountain stations ranged from 70% of the January average at Paradise Park to 130% around Strawberry Reservoir. The October-January accumulated precipitation has ranged from 105% on Ashley Creek to 129% above Strawberry Reservoir.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is below average in both Steinaker 55% (11,300 acre feet) and Moon Lake 41% (6,900 acre feet). Starvation is about the same as last year with 141,600 acre feet.

STREAMFLOW FORECASTS range from 87% of average for Black's Fork to 112% for Ashley Creek. Whiterocks is forecast 95%, Uintah 101%, Yellowstone 101%, Lakefork 100%, Rock Creek 104%, Currant Creek 105%, Duchesne 92% at both Tabiona and Duchesne and the Strawberry at Duchesne 105% of the April-July average.

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		THOUSAND ACRE FEET	
				Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona ¹	98	92	Apr-July	--	107
Duchesne at Duchesne	178	92	Apr-July	--	193
Strawberry at Duchesne	60	105	Apr-July	--	57
Rock Creek nr Mtn. Home	99	104	Apr-July	116	95
Currant Creek nr Fruitland	21	105	Apr-July	19.0	20
Lakefork below Moon Lake	72	100	Apr-July	70	72
Yellowstone nr Altonah	68	101	Apr-July	--	67
Duchesne at Myton ¹	220	105	Apr-July	134	210
Whiterocks nr Whiterock	57	95	Apr-July	49	60
Uintah nr Neola	90	101	Apr-July	72	89
Duchesne at Randlett ¹	266	100	Apr-July	--	266
West Fork Duchesne At Hanna	25	98	Apr-July	--	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	48	89	Apr-Sept	--	54
Black's Fork at Millburne	80	87	Apr-July	--	92
Flaming Gorge Inflow ¹	1300	101	Apr-July	1470	1292
Ashley Creek nr Vernal	57	112	Apr-July	37	51

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average †
DUCHESNE RIVER - TOTAL	7	127	140
LAKEFORK-YELLOWSTONE CREEKS	1	152	150
STRAWBERRY RIVER	3	100	129
UINTAH - WHITEROCKS RIVERS	2	163	138
1 - Observed flow corrected for change in storage and diversions 2 - Provisional flows - Subject to correction			

RESERVOIR STORAGE (Thousand Acre Feet) MID-MONTH READING

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Steinaker	33.3	11.3	6.1	20.5
GREEN RIVER	Flaming Gorge	3749.0	2595.4	1987.5	--
LAKE FORK	Moon Lake	35.8	6.9	10.2	16.8
STRAWBERRY	Starvation	165.3	141.6	140.2	129.4 ^b
UINTAH	Bottle Hollow	11.3	9.5	10.1	9.8 ^b

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
To begin March 1, 1979		

+ - 1963-77 15 Year Average Period
b - less than 15 years

U.S. GOVERNMENT PRINTING OFFICE: 1977 M7-N-22027X

+ 1956-1972 period.

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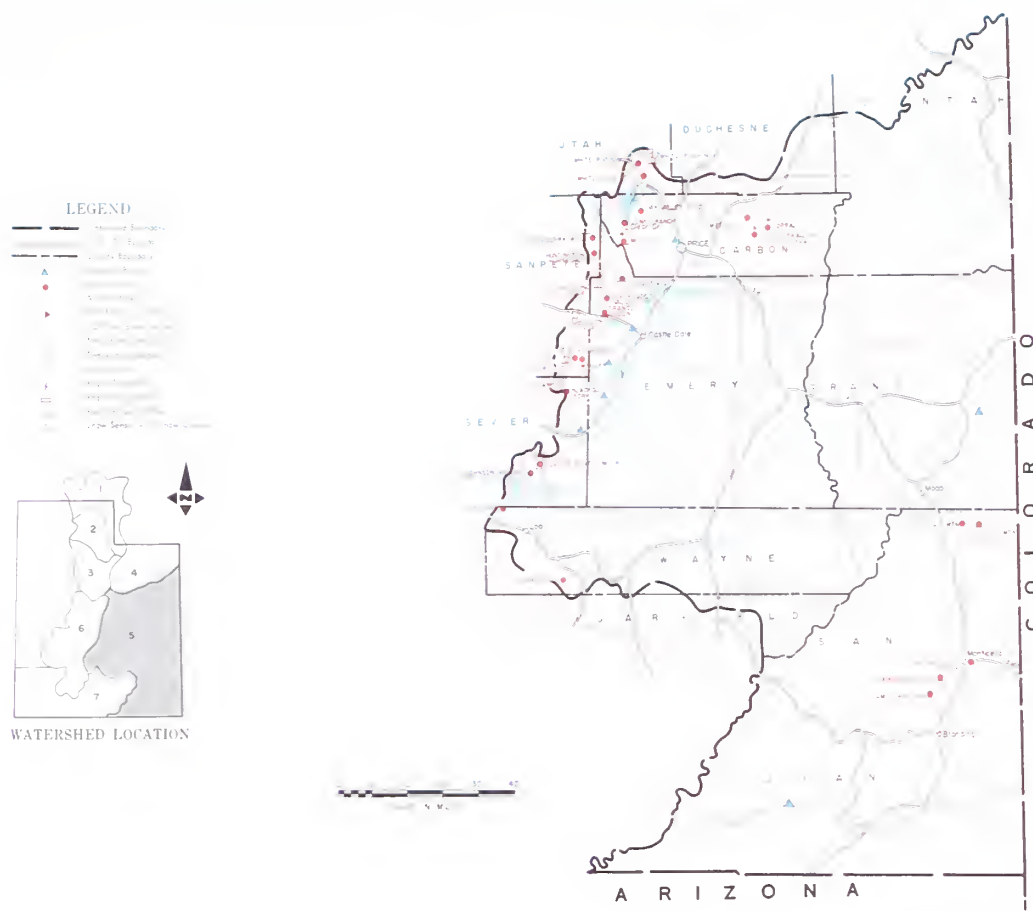
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WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES - DIVISION OF WATER RIGHTS



FEBRUARY 1, 1979

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 122% of average on the San Rafael to about twice average on the LaSal and Blue Mountains. Price River basin is 134% of the February 1 average.

PRECIPITATION at mountain locations ranged from 110% of average at Red Pine Ridge to 173% at Fish Lake for January. Up to 7.5 inches of precipitation in the form of snow fell at Camp Jackson on the Blue Mountains, but the site has insufficient February 1 record to have an average.

SOIL MOISTURE in this area is above average.

RESERVOIR STORAGE is above average with Scofield 115% and Joes Valley 121% of the February 1 average.

STREAMFLOW FORECASTS range from 109% on Cottonwood Creek to 196% for Mill Creek near Moab. Other forecasts are as follows: Scofield Inflow 146% (52,000 acre feet), Price 141%, Huntington Creek 154%, Ferron Creek 118%, Muddy Creek 119%, and 185% for San Juan near Bluff. Seven Mile Creek near Fish Lake 109%.

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Thousand Acre Feet	Percent of Average		Last Year ‡	Average ‡
PRICE RIVER					
Gooseberry Crk nr Scofield	15.0	150	Apr-July	--	10.1
Scofield Reservoir Inflow	52	146	Apr-July	--	36
Price nr Heinerl	90	141	Apr-July	--	--
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	71	154	Apr-July	66	49 ^b
Cottonwood Crk nr Orangeville	48	109	Apr-July	--	44 ^b
Ferron Creek nr Ferron	40	118	Apr-July	--	34
MUDDY CREEK					
Muddy Creek nr Emery	20	119	Apr-July	--	16.8
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	4100	151	Apr-July	3884	2716
Green at Green River, Utah	3500	118	Apr-July	3560	2975
Mill Creek nr Moab	10.0	196	Apr-July	--	5.1 ^b
Navajo Reservoir Inflow	1150	189	Apr-July	--	608
San Juan nr Bluff, Utah	1600	185	Apr-July	870	865
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.0	109	Apr-July	--	6.4

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	1	104	134
SAN RAFAEL RIVER	3	99	122

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ‡
PRICE RIVER	Scofield	65.8	40.0	17.3	34.7
SAN RAFAEL	Huntington North	3.9	1.5	2.1	2.4 ^b
	Joe's Valley	54.6	43.6	33.5	36.0 ^b
	Mill Site	16.7	5.6	0.3	--
SAN JUAN	Navajo	1696.0	1180.7	955.5	--

+ - 1963-77 15 Year Average Period

b - Average of all past record - less than 15 years

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ‡
To begin March 1, 1979		

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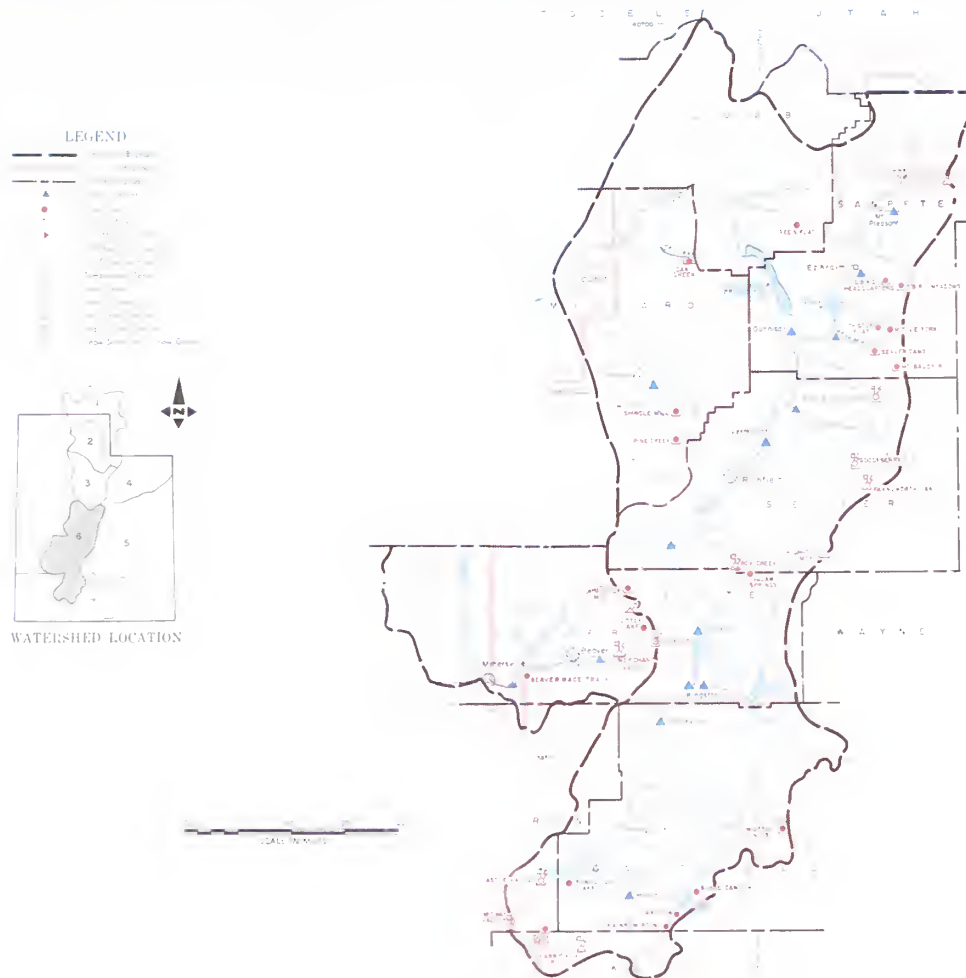
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WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1979

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 261% of the February 1 average on the East Fork Sevier to 117% on the Lower Sevier. The South Fork is 206% and Beaver River is 176% of the February 1 average for the 1963-77 15 year period. The Upper Sevier has two to three times the snow water content this year over last year.

PRECIPITATION at mountain locations varied from 126% of the January average at Shingle Mill near Fillmore to 244% at Duck Creek R.S. The October-January accumulated precipitation ranges from 91% of average at Shingle Mill to 185% at Widtsoe #3.

SOIL MOISTURE is above average on the Upper Sevier and near average on the Lower Sevier.

RESERVOIR STORAGE in four Sevier River reservoirs is 59% of the February 1 average and 7% better than a year ago. Minersville Reservoir is 97% of average and better than three times last years storage on February 1. All reservoirs should fill except Sevier Bridge.

STREAMFLOW FORECASTS range from 116% of the April-July average for Chalk Creek to 247% for the East Fork of Sevier. Sevier River is forecast 197% at Hatch, 215% at Circleville, 236% at Kingston, and 157% at Gunnison. Clear Creek is forecast 164%, Salina Creek 159%, and Ephraim Creek 197%. Beaver River is forecast 160%, North Creeks 125%, and Minersville Inflow 185% of the April-June average.

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ²	Average [†]
SEVIER RIVER					
Sevier at Hatch	80	197	Apr-July	51	41
Sevier nr Circleville	65	215	Apr-July	--	29
Sevier nr Kingston	53	236	Apr-July	--	22
Antimony Crk nr Antimony	14.7	201	Apr-July	--	6.9
East Fork Sevier nr Kingston ¹	38	247	Apr-July	--	15.4
Sevier below Piute Dam	85	237	Apr-July	--	36
Clear Crk nr Sevier (abv Div)	31	164	Apr-July	25	17.8
Inflow					
Kingston to Vermillion Dam	105	187	Apr-June	--	--
Vermillion Dam to Gunnison	55	159	Mar-June	--	--
Salina Creek at Salina	18.5	159	Apr-June	12.8	11.1
Sevier nr Gunnison	78	157	Apr-July	35	50
Chalk Creek nr Fillmore	18.0	116	Apr-July	--	15.5 ^b
Chicken Creek nr Levan	3.5	113	Apr-July	--	3.1
Oak Cr. nr Oak City	2.5	179	Apr-July	--	1.4
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	28.5	197	Apr-July	--	--
Pleasant Crk nr Mt. Pleasant	12.4	148	Apr-July	--	8.6
BEAVER RIVER					
Beaver nr Beaver	32	160	Apr-July	37	20
North Creek (Combined)	15.2	125	Apr-July	--	12.2 ^b
Minersville Reservoir Inflow ¹	12.2	185	Apr-June	--	6.6

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	5	205	216
East Fork Sevier	2	306	261
South Fork Sevier	4	192	206
LOWER SEVIER	6	100	117
BEAVER RIVER	3	135	176
1 - Observed flow corrected for change in storage and diversions 2 - Provisional flows - Subject to correction			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average [†]
SEVIER RIVER	Gunnison	18.2	9.3	1.0	11.7
	Otter Creek	52.5	19.2	17.3	29.6
	Piute	71.8	27.2	18.1	40.1
	Sevier Bridge	236.0	59.5	71.2	113.6
BEAVER RIVER	Minersville (Rky Fd)	23.3	11.6	4.4	12.0
b - Average of all past record - less than 15 years † - 1963-77 15 Year Average Period e - Estimated					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average [†]
To begin March 1, 1979		

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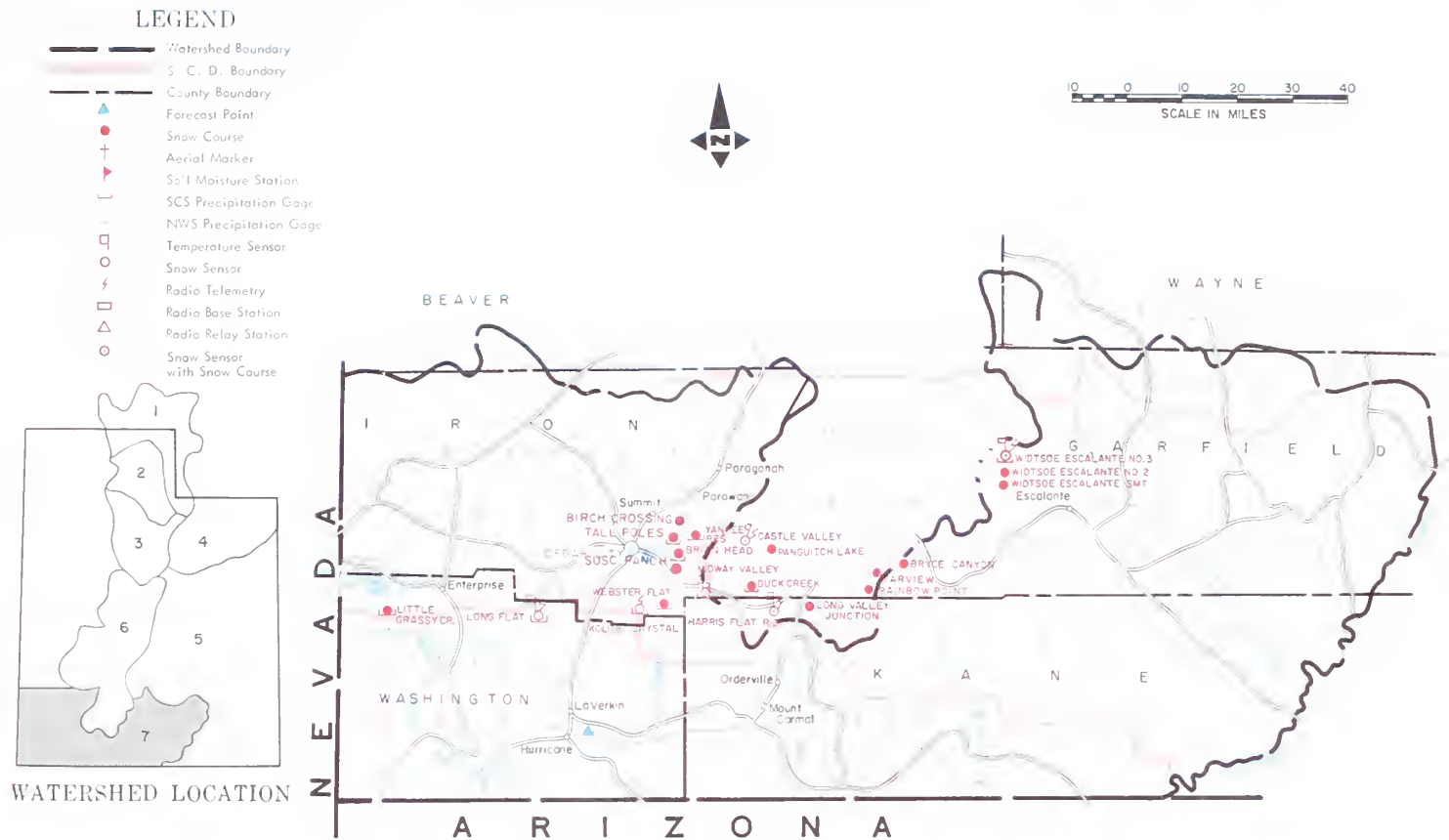
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1979

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER varies from 180% of the February 1 average on Parawan Creek to 233% on Virgin River. Coal Creek is 219% of average. All three watersheds have about twice as much snow water content as last year at this time. Mountain cabin owners are advised to shovel snow off roofs to reduce damage to structures. Many snow courses have greater water content this year than February 1, 1969 and are approaching the heaviest year of record 1952. Snow water measurements above Enterprise are also about the same as those taken March 1, 1969.

PRECIPITATION at mountain stations was generally better than twice average for January bringing the October-January accumulation to near 200% of average at most stations. Some stations received as much as seven inches of precipitation during January.

SOIL MOISTURE is above average in this area.

RESERVOIR STORAGE is reported as almost full and releasing at Gunlock Reservoir. Enterprise Reservoirs appeared to be about half full as snow surveyors flew over on February 5. These reservoirs could fill rapidly if a warming trend and/or rain occurs in the next few weeks. Snow cover is very heavy above these structures.

STREAMFLOW FORECASTS range from 140% of the April-July average for Lake Powell Inflow to 195% (8,000 acre feet) of the April-June average for Santa Clara near Pine Valley. Virgin River near Hurricane is forecast 192% (93,000 acre feet) of its April-June average and Coal Creek is forecast 176% (30,000 acre feet) of its April-July average.

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
<u>VIRGIN RIVER</u>					
Virgin nr Hurricane	93	192	Apr-June	--	48.5
Santa Clara nr Pine Valley	8.0	195	Apr-June	9.9	4.1
<u>COAL CREEK</u>					
Coal Creek nr Cedar City	30	176	Apr-July	--	17.0
<u>UPPER COLORADO</u>					
Lake Powell Inflow	9700	140	Apr-July	--	6952
2 - Provisional Flows - Subject to correction					

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
COAL CREEK	2	189	219
VIRGIN RIVER	3	205	233
PAROWAN CREEK	3	210	180

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
<u>COLORADO</u>	Lake Powell	25002.0	15222.0	14789.0	111
	Blue Mesa	829.5	523.2	279.3	111
b - Average of all past record - less than 15 years					
+ - 1963-77 15 year Average Period					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
To begin March 1, 1979		

NSA-303-POSTAL-03-0001-1014 M17-N-22027X

† 1958-1972 period.

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SNOW

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)						
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
GREAT BASIN												
UPPER BEAR RIVER (Above Harer, Idaho)												
Big Park	1/29	47	13.6	20.4	13.3							
Burts-Miller Ranch	1/30	20	4.5	4.5	--	1/30	1.50a	--	4.91	--	--	
CCC Camp	1/30	38	9.6	14.6	8.6							
Hayden Fork	1/30	36	9.2	12.4	--	1/30	3.62a	--	11.84	--	--	
Kelly R.S.	1/29	50	13.0	19.0	11.9							
Monte Cristo R.S.	1/30	55	16.9	19.3	16.3	1/30	6.35	6.10b	15.23	17.12	89	
Poison Meadows	1/29	68	19.2	33.1	20.1							
Salt River Summit	1/30	46	12.2	18.0	11.0	1/30	4.13	4.18	10.75	11.35	95	
Snider Basin	1/29	45	13.4	20.2	11.7							
Stillwater Camp	1/30	33	7.8	8.0	--	1/30	2.10a	--	6.96	--	--	
LOWER BEAR RIVER (Below Harer, Idaho)												
Bug Lake	1/29	54	16.2	--	--							
Cub River R.S.	1/29	34	8.6	9.4	6.4							
Emigrant Summit	1/31	59	17.8	23.8	17.0							
Franklin Basin	1/29	55	18.1	23.4	17.8a							
Garden City Summit	1/29	53	15.5	15.0	11.6	1/29	5.34	4.27	15.05	12.33	122	
Klondike Narrows	1/29	48	15.5	18.6	13.0	1/29	4.83	--	11.65	--	--	
Little Bear (lower)	1/30	38	10.6	8.7	--							
Little Bear (upper)	1/30	42	12.5	9.3	--							
Steep Hollow #1	1/29	77	24.5	34.4	23.3							
Steep Hollow #2	1/29	60	18.3	25.8	17.1							
Tony Grove Lake	1/29	79	26.6	37.4	--							
Tony Grove R.S.	1/29	43	12.4	11.8	8.6	1/29	5.07	--	--	--	--	
Willow Flat	1/29	52	14.8	14.8	10.9	1/29	6.08	5.00b	14.26	15.14	94	
OGDEN RIVER												
Beaver Creek-Skunk Creek	1/30	33	10.8	10.0	8.3							
Ben Lomond Peak	1/30	82	28.1	31.0	22.4b							
Ben Lomond (lower)		Discontinued										
Ben Lomond Trail	1/30	61	17.4	--	12.4b	1/30	7.01	7.56b	18.68	20.51b	91	
Causey Dam						1/30	3.95	2.56b	10.32	9.49	109	
Cutler Creek		Discontinued		24.0	--							
Dry Bread Pond	1/30	44	13.5	15.4	12.2							
North Fork	2/1	82	18.7	--	--							
Sagebrush Flat	1/30	24	5.8	3.7	4.1	1/30	4.02	--	10.55	9.49	111	
WEBER RIVER												
Beaver Creek R.S.	2/3	28	5.8	5.6	5.9							
Chalk Creek #1	1/30	47	12.6	16.1	13.6a							
Chalk Creek #2	1/30	35	8.2	9.2	9.7							
Chalk Creek #3	1/30	26	5.6	4.9	5.4	1/30	1.94	--	6.34	9.44b	67	
East Shingle Lake (A)		Data Delayed		23.8	--							
Farmington Canyon (lower)	1/30	61	18.6	16.5	14.0b	1/30	5.98	5.22b	17.19	18.36	94	
Farmington Canyon (upper)	1/30	69	21.9	21.4	19.5b							
Farmington G.S.						1/30	6.16	--	14.48	--	--	
Horse Ridge	1/30	58	18.5	16.6	15.0a	1/30	6.92	--	17.79	--	--	
Killfoil Creek	1/30	47	13.1	9.3	--							
Lost Creek Reservoir	1/30	30	6.9	4.6	--	1/30	3.45	--	8.58	--	--	
Park City Summit	1/30	58	17.3	17.7	--							
Parley's Canyon Summit	1/29	45	11.9	14.4	12.7	1/29	3.90	4.31	12.39	14.80	84	
Redden Mine (lower)		Not Measured										
Redden Mine (upper)												
Sergeant Lake (A)		Data Delayed		15.1	--							
Smith & Morehouse	1/30	33	8.5	9.1	8.9	1/30	3.10	3.55	9.12	11.90	77	
PROVO RIVER & UTAH LAKE												
Beaver Creek Divide		Not Measured		9.9	--							
Camp Altamont	1/29	51	16.5	10.9	10.2							
Clear Creek Ridge #1	2/3	53	14.2	14.6	--							
Clear Creek Ridge #2	2/3	47	12.5	10.2	9.6b	2/3	3.62	--	12.42	10.87b	114	
Clear Creek Ridge #3		Not Measured		7.1	5.5							
Dutchman R.S.	1/29	55	16.0	13.9	--							
Hobble Creek Summit		Not Measured		11.3	--							
Packard Canyon		Not Measured		7.3	--							
Payson R.S.	2/3	51	12.2	12.1	12.2	2/3	4.80	3.30	13.75	12.04	114	

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME											
PROVO RIVER & UTAH LAKE (cont'd)											
Rock Bridge		Not Measured		7.8	8.3						
Soapstone R.S.	2/3	38	9.5	9.6	8.6	2/3	3.86	3.39	10.71	11.16	96
South Fork R.S.	1/29	27	8.8	7.6	4.5						
Timpanogos Cave Camp	1/29	15	4.0	1.8	2.3						
Timpanogos Divide	1/29	68	21.7	15.1	16.9	1/29	5.20	4.97	20.30	17.43	116
Trial Lake	2/3	61	16.8	21.1	15.6	2/3	5.65	4.71	16.86	16.20	104
JORDAN RIVER & GREAT SALT LAKE											
Lamb's Canyon #2	1/29	39	10.2	12.4	--	1/29	3.35	--	10.38	--	--
Middle Canyon	1/26	36	9.6	6.5	9.2	1/26	2.80	2.71b	11.40	9.74	117
Mill Creek	1/30	41	10.9	12.7	--						
Mill D South Fork	1/30	44	12.2	13.2	13.2						
Mt. Dell Dam						1/31	1.78	2.16	--	9.37	--
Silver Lake (Brighton)	2/1	58	15.6	16.6	15.8	1/31	5.57	5.36	17.87	18.07	99
Snow Bird (Gad Valley)	2/3	78	23.8	27.3	--						
Vernon Creek	1/26	42	11.2	8.8	--	1/26	3.90	--	12.80	--	--
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	1/30	49	14.2	7.3	--	1/30	4.60	--	14.40	--	--
Bryce Canyon	1/30	42	9.9	2.4	3.0						
Castle Valley	1/30	53	15.4	7.4	--	1/30	4.50	--	16.55	--	--
Duck Creek R.S.	2/5	74	19.8	10.8	8.0	2/5	7.00	2.87	19.73	10.90	181
Farview	1/30	57	13.7	5.8	--						
Harris Flat	2/5	54	14.0	7.3	5.3						
Kimberly Mine	1/30	50	15.4	9.6	9.5b	1/30	5.20	3.13b	14.48	11.20	129
Midway Valley	2/5	89	24.0	10.4	12.7	2/5	6.20	--	22.50	--	--
Panguitch Lake	1/30	36	9.8	4.5	--	1/30	1.90	--	10.00	--	--
Rainbow Point	1/30	62	16.0	7.2	--						
Squaw Springs	1/30	34	9.0	5.6	--						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	2/3	49	12.2	9.5	--	2/3	5.92	--	12.35	--	--
Farnsworth Lake	2/2	51	13.3	11.8	11.8	2/2	4.70	3.09	12.30	11.64	106
G.B.R.C. Headquarters	1/30	42	12.2	10.9	9.8	1/30	4.15	2.98	12.30	11.52	107
G.B.R.C. Majors						2/1	2.50	1.42	7.10	5.65	126
G.B.R.C. Meadows	1/30	51	15.0	16.1	13.5	1/30	5.40	3.84	14.77	13.98	106
G.B.R.C. Oaks						2/1	3.05	2.02	8.55	7.82	109
Gooseberry R.S.	2/2	34	8.4	9.0	7.4	2/2	3.40	2.45b	10.25	7.49b	137
Mammoth-Cottonwood Creek	1/30	54	16.4	16.6	13.2						
Middle Fork		Not Measured		--	--						
Mt. Baldy R.S.	2/3	87	21.4	15.2	--	2/3	7.50	--	16.60	--	--
Oak Creek	1/30	43	11.5	--	--	1/30	3.75	--	12.46	--	--
Pickle Keg Springs	2/3	54	13.8	11.8	--						
Pine Creek	1/30	43	11.6	16.0	--	1/30	4.50	--	13.71	--	--
Ree's Flat	2/3	43	8.7	--	--	2/3	3.51	--	10.26	--	--
Shingle Mill	1/30	28	6.6	7.8	5.7	1/30	2.65	2.10b	9.35	10.25	91
Thistle Flat		Not Measured									
BEAVER RIVER											
Beaver Race Track	1/31	6	1.2	1.5e	--						
Beaver Canyon Power House						1/31	2.79	1.23	8.68	5.45	159
Big Flat	1/30	60	18.2	12.8	10.0	1/30	5.60	--	15.29	9.93	154
Merchant's Valley (upper)	1/30	46	11.2	9.2	7.5b	1/30	4.30	--	11.47	9.18b	125
Otter Lake	1/30	54	14.6	10.5	7.5						
PAROWAN CREEK											
Birch Crossing	1/29	35	9.3	4.8	4.3b						
Brian Head	1/30	70	21.2	9.1	12.4b						
Tall Poles	1/29	52	14.7	7.8	8.5b	1/29	4.50	2.20b	10.45	9.48b	110
Yankee Reservoir	1/30	44	10.6	6.5	--	1/30	5.05	--	11.30	--	--
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	2/5	43	13.5	6.1	--	2/5	5.40	--	16.30	--	--

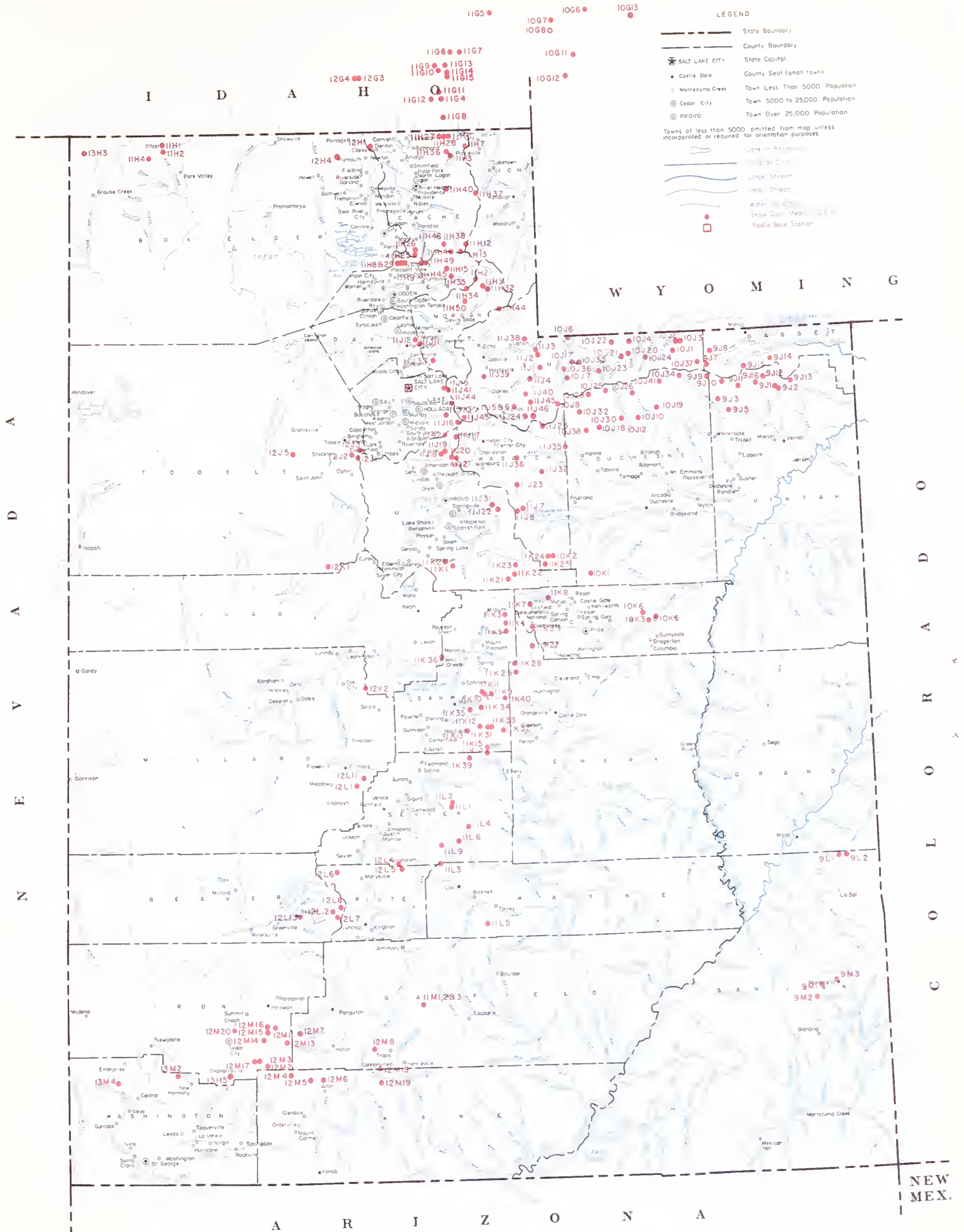
SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
ENTERPRISE TO NEW HARMONY DRAINAGES (cont'd)											
Long Flat	2/5	44	13.6	5.2	--	2/5	3.80	--	14.15	--	--
COAL CREEK											
Cedar City Golf Course	1/29	12	1.6	0.0	--						
SUSC Ranch	1/29	46	14.0	6.2	5.8b						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)		Data Delayed		4.3	--						
Black's Fork G.S.-East Fork	1/30	25	6.4	7.2	--	1/30	3.48a	--	6.36	--	--
Black's Fork Junction	1/30	29	6.9	6.6	--	1/30	3.29a	--	6.33	--	--
Buck Pasture (A)		Data Delayed		15.1	--						
Burnt Creek	1/31	25	5.0	3.2	--	1/31	1.02	1.60b	6.42	6.09b	105
Dutch John Junction	1/31	25	4.8	3.3	--						
Grizzly Ridge	1/31	36	9.1	6.5	--	1/31	1.85	2.44b	9.17	8.75b	105
Henry's Fork (A)		Data Delayed		8.1	--						
Hewinta G.S.	1/30	27	6.3	6.5	--	1/30	3.70a	--	7.13	--	--
Hickerson Park	1/30	25	5.0	3.4	--						
Highline Trail		Discontinued									
King's Cabin (lower)		Discontinued		3.7	--						
King's Cabin (upper)	1/31	34	7.8	4.2	--	1/31	1.80a	--	7.99	--	--
Middle Beaver Creek		Not Measured									
Reynolds Park (A)		Data Delayed		8.1	--						
Spirit Lake	1/30	39	9.8	4.1	--	1/30	--	--	9.64	--	--
Steel Creek Park	1/30	37	9.0	11.6	--						
Trout Creek	1/30	38	9.1	4.5	--	1/30	--	--	8.42	--	--
Windy Park (A)		Data Delayed		2.2							
DUCHESNE RIVER											
Atwood Lake (A)		Data Delayed		3.8	--						
Brown Duck Ridge		Not Measured		13.8	--						
Chepeta-Whiterocks (A)		Data Delayed		7.5	--						
Currant Creek		Not Measured		8.1	--	2/1	3.70	--	12.00	--	--
Daniels-Strawberry Summit	2/5	45	10.6	10.9	10.0	2/5	4.65	3.59	14.61	12.03	121
East Portal	1/30	42	11.5	10.5	7.4	1/30	4.33	3.34	14.36	11.14	129
Five Points Lake (A)		Data Delayed		7.9	--						
Indian Canyon	2/5	48	14.1	8.9	8.0	2/5	3.19	2.41	13.46	8.69	155
Jackson Park	2/2	45	10.5	7.4	--	2/2	--	--	10.62	--	--
Lakefork Basin (A)		Data Delayed		10.6	--						
Lakefork Mountain	2/2	42	10.2	6.7	6.8	2/2	3.10a	--	9.70	8.68	112
Lakefork Mountain #2					--						
Lakefork Mountain #3		Not Measured		4.0	4.2b						
Lightning Lake (A)		Data Delayed		16.8	--						
Mosby Mountain	2/1	34	7.5	4.8	6.3	2/1	1.60a	2.28b	9.57	8.87	108
Paradise Park	2/1	46	12.6	7.5	8.3	2/1	1.67a	2.39b	14.23a	9.36	152
DUCHESNE RIVER											
Rock Creek Ranch	2/2	31	6.9	4.6	--	2/2	2.92	--	9.23	--	--
Strawberry Divide	1/30	58	16.4	16.0	12.4						
PRICE RIVER											
Dry Valley Divide Alternate	2/5	38	9.9	9.5	--						
Gooseberry Reservoir	Snow Course Discontinued			16.4	12.0	1/30	5.85	3.71	15.34	12.09	127
Jones Ranch		Discontinued		5.0	4.4						
Mud Creek	1/30	44	11.8	11.4	8.8	1/30	4.00	2.70	--	9.20	--
White River #1	2/3	54	13.9	10.0	--		No Reading				
White River #2		Discontinued		7.6	--						
White River #3	2/3	35	8.1	9.2	--						
SAN RAFAEL RIVER											
Buck Flat	2/3	55	14.4	12.9	10.2	2/3	6.65	--	15.45	11.29b	137
Huntington-Horseshoe	1/30	54	17.6	21.2	--						
Orange Olsen	1/30	23	4.5	5.0	--	1/30	2.50	--	7.85	5.22b	150
Red Pine Ridge	1/30	42	11.4	12.0	10.7	1/30	4.80	--	14.10	12.77	110
Seeley Creek R.S.	1/30	40	12.5	12.2	--						
Stuart R.S.	1/30	32	8.0	7.7	--	1/30	Gage Frozen	--	10.03	--	--

SNOW

PRECIPITATION (Inches)

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)						
	DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
SAN RAFAEL RIVER (cont'd)												
Upper Joe's Valley	1/30	34	7.8	9.0	6.6							
Whigley Creek		Not Measured		9.0	6.4							
MUDDY RIVER												
Black's Fork		Not Measured		11.4	--							
Dill's Camp	2/3	44	9.6	11.2	--	2/3	6.68	--	14.01	--	--	
FREMONT RIVER												
Black's Flat-U.M. Creek	2/2	44	10.4	9.4	--	2/2	4.20	--	12.08	--	--	
Fish Lake	2/2	37	9.0	6.4	--	2/2	2.30	1.33b	9.10	6.35	143	
Johnson Valley	2/2	37	8.8	6.9	--							
SOUTHEASTERN UTAH DRAINAGES												
Buckboard Flat	1/29	67	21.1	6.8	--	1/29	6.25	--	21.45	--	--	
Camp Jackson	1/29	70	19.3	9.4	--	1/29	7.50	--	22.50	--	--	
LaSal Mountain (lower)	1/30	40	9.0	8.0	--							
LaSal Mountain (upper)	1/30	58	15.6	11.6	--	1/30	5.20	--	13.64	--	--	
Monticello City Park	1/31	29	8.8	4.7	--							
ESCALANTE RIVER												
Widtsoe-Escalante #3	2/2	58	14.6	5.6	6.4	2/2	2.70	1.58	14.05	7.59	185	
VIRGIN RIVER												
Kolob-Crystal	2/5	91	28.8	10.9	--							
Long Valley Junction	1/30	56	15.8	6.9	3.2							
Webster Flat	2/5	73	21.0	12.3	10.2	2/5	7.10	3.48	23.48	11.62	202	
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading e - Estimated												



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M7-01-22027

INDEX TO UTAH, BEAR & UPPER, COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO	STATE	NAME	SEC	TWP.	RGE	ELEV.	NO	STATE	NAME	SEC.	TWP.	RGE	ELEV.
UPPER BEAR RIVER (above Harer, Idaho)													
10G11	W	Big Park	7	27N	117W	8,700	11J25P	U	Soapstone R.S.	9	35	8E	7,800
10J6P	U	Burbs-Miller Ranch	19	27N	10E	7,900	11J19	U	South Fork R.S.	24	45	7W	9,250
10G7	W	CCC Camp x	9	29N	118W	7,000	11J18	U	Timpanogas Cave Camp	27	45	2E	5,500
10J3ap	U	Gold Hill	15	1N	9E	10,500	11J21PST	U	Timpanogas Divide	33	45	3E	8,140
10J7PST	U	Hayden Fork	25	1N	9E	9,400	10J8PST	U	Trial Lake	5	25	9E	9,960
10G12	W	Kelly Ranger Station	23	26N	118W	8,200							
10J35p	U	Lilly Lake	34	2N	10E	8,050							
10J2PST	U	Poente Cristo R. S.	1	30N	116W	8,660							
10G45	W	Reddows x	29	30N	116W	8,500							
10G8P	W	Snyder Basin x	32	29N	118W	7,900							
10G13MP	W	Snyder Basin x	15	29N	115W	8,400							
10J17P	U	Strilwater Camp	32	2N	10E	8,550							
LOWER BEAR RIVER (below Harer, Idaho)													
11H37pST	U	Bug Lake	18	11N	5E	7,950							
11G11	U	Christensen Ranch	27	13S	41E	5,600							
11H38p	U	Cinnamon Creek	5	8N	3E	7,300							
12H1P	U	Clarkston Mountain	29	14N	2W	6,300							
11G12	U	Cub River Ranger Station	5	15S	41E	5,400							
12G4	U	Dry Basin	30	13S	42E	7,900							
12G4	U	Dry Creek Flat	31	13S	37E	6,350							
11G6	U	Enigration Canyon (mouth)	21	12S	42E	6,500							
11G8MPST	U	Franklin Basin	24	12S	42E	8,000							
11H4P	U	Garden City Summit	34 & 35	11N	7E	7,600							
11H45p	U	Harshouse Basin	31	13S	42E	8,000							
11G13p	U	Harshouse Narrows	31	13S	42E	7,400							
11H1MP	U	Liberty Springs	10	14N	3E	7,400							
11G13	U	Liberty Springs	7	13S	42E	8,240							
11H26	U	Little Bear (lower)	16	8N	1E	6,000							
11H26PST	U	Little Bear (upper)	22	8N	1E	6,550							
12G3	U	Oxford Mountain	32	13S	37E	6,800							
11G5	U	Slug Creek Divide	15	10S	44E	7,225							
11H27	U	Steep Hollow #1	7	14N	3E	8,500							
11H28	U	Steep Hollow #2	9	14N	3E	7,700							
11G7	U	Strawberry Mtnk Divide	14	13S	41E	5,800							
11G10	U	Strawberry Mtnk Divide	14	13S	41E	6,800							
11H3PST	U	Top Grove Lake	11	13N	3E	8,000							
11H3MP	U	Top Grove Ranger Station	11	13N	3E	8,200							
11G4P	U	Willow Flat	2	15S	41E	6,100							
RAFT RIVER													
13H2a	U	Clear Creek Meadows	26	14N	14W	9,050							
13H4P5	U	George Peak	4	13N	14W	9,000							
13H1	U	One Mile Summit	17	14N	14W	7,330							
13H3a	U	ViPont	17	14N	17W	7,670							
OGDEN RIVER													
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150							
11H8PST	U	Ben Leland Peak	3	7N	1W	8,000							
11H9PST	U	Ben Leland (lower)	34	7N	1W	5,680							
11H39p	U	Causes Dam	3	7N	3E	5,500							
11H23p	U	Causes Dam	3	7N	1W	8,780							
11H23MPST	U	Dry Lake and	19	6N	4E	8,000							
11H3p	U	Dry Lake and	19	6N	4E	8,050							
11H45p	U	Middle Fork Ogden	16	7N	2E	8,420							
11H49	U	Powder Mountain Highway	6	7N	2E	8,250							
11H48	U	Powder Mountain Sundown	1	7N	1E	8,400							
11H15P	U	Sagebrush Flat	21	7N	3E	6,300							
WEBER RIVER													
11J24	U	Beaver Creek R.S.	28	25	7E	7,500							
11J1PST	U	Chalk Creek #1	4	1N	8E	9,100							
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200							
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500							
11J45a	U	East Shingle Lake	6	2S	8E	9,750							
11J12P	U	Farmington Canyon (lower)	15	3N	1E	6,950							
11J1PST	U	Farmington Canyon (upper)	23	3N	1E	8,000							
11H44p	U	Francis Canyon	29	5N	2E	7,400							
11J37p	U	Handscabble	22	7N	6E	8,000							
11J42PST	U	Koppe Ridge	22	7N	6E	7,300							
11H3P	U	Koppe Ridge	20	6N	5E	7,300							
11H32P	U	Leat Creek	27	6N	5E	7,300							
11J43	U	Park City Summit	30	25	4E	9,300							
11J15PST	U	Parley's Canyon Summit	5	15S	3E	7,500							
11H50	U	Pine Canyon	6	5N	4E	8,000							
11J38p	U	Porcupine	22	3N	7E	8,100							
11J6	U	Redden Mine (lower)	1	2S	6E	8,500							
11J5P	U	Redden Mine (upper)	1	2S	6E	9,000							
11J39p	U	Sergeant Lakes	9	1N	6E	8,300							
11J40p	U	Shingle Mill Flat	22	1S	7E	9,040							
11J4PST	U	Smith & Morehouse	23	1N	7E	7,600							
PROVO RIVER & UTAH LAKE													
11H46PST	U	Beaver Creek Divide	25	2S	7E	8,280							
11J20	U	Camp Mountain	19	11S	4E	9,500							
11K21PST	U	Camp Mountain Ridge #1	18	11S	4E	9,500							
11K22PST	U	Clear Creek Ridge #2	9	11S	4E	8,000							
11K23P	U	Clear Creek Ridge #3	27	10S	6E	6,600							
11J7P	U	Dutchman R.S.	27	3S	3E	7,540							
11J22P	U	Hobble Creek Summit	27	7S	5E	7,420							
11J36P	U	Hobble Creek	36	4S	6E	9,000							
11J31	U	Lackland Canyon	21	7S	5E	6,400							
11K1P	U	Payson R.S.	101	10S	3E	8,050							
11K2	U	Rock Bridge	14	10S	2E	6,750							

COLORADO RIVER DRAINAGE

NO	STATE	NAME	SEC.	TWP.	RGE	ELEV.	NO	STATE	NAME	SEC.	TWP.	RGE	ELEV.
UPPER GREEN RIVER IN UTAH (above Duchesne River)													
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500							
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300							
10J22P	U	Black's Fork Junction	33	3N	12E	8,925							
9J123p	U	Black Rature	2	1N	12E	7,200							
9J13p	U	Burnt Creek	8	1S	20E	7,000							
9J13P	U	Grizzley Ridge	8	1S	20E	8,500							
10J24ap	U	Henrietta G.S.	29	2N	14E	10,000							
10J4P	U	Henrietta G.S.	33	3N	13E	9,500							
9J8P	U	Hickerson Park	13	2N	17E	9,100							
9J15p	U	Highline Trail	24	1N	19E	10,250							
10J1	U	Hole-in-the-Rock	13	2N	13E	9,150							
10J13	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300							
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,640							

PROVO RIVER & UTAH LAKE

NO	STATE	NAME	SEC.	TWP.	RGE	ELEV.	NO	STATE	NAME	SEC.	TWP.	RGE	ELEV.
UPPER GREEN RIVER IN UTAH (above Duchesne River)													
9J11aP	U	Ashley Twin Lakes	20	1S	19E	10,500							
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300							
10J22P	U	Black's Fork Junction	33	3N	12E	8,925							
9J123p	U	Black Rature	2	1N	12E	7,200							
9J13p	U	Burnt Creek	8	1S	20E	7,000							
9J13P	U	Grizzley Ridge	8	1S	20E	8,500							
10J24ap	U	Henrietta G.S.	29	2N	14E	10,000							
10J4P	U	Henrietta G.S.	33	3N	13E	9,500							
9J8P	U	Hickerson Park	13	2N	17E	9,100							
9J15p	U	Highline Trail	24	1N	19E	10,250							
10J1	U	Hole-in-the-Rock	13	2N	13E	9,150							
10J13	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300							
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,640							

LEGEND

- Numbering System (example)
- 10J7P Snow Course Only
- 10J7M Snow Course and Precipitation Gage
- 10J7MA Snow Course and Soil Moisture Station
- 10J7HA Snow Course, Soil Moisture Station and Aerial Marker
- 10J7HP Snow Course, Soil Moisture Station and Precipitation Gage
- 10J7A Storage Precipitation Gage Only
- 10J7PS Storage Precipitation Gage, Snow Pillow and Temperature, Snel Data Site

NO	STATE	NAME	SEC	TWP	RGE	ELEV.
UPPER GREEN RIVER IN UTAH (above Duchesne River) (continued)						
U	U	King's Cabin (upper)	22	1S	21E	8,720
U	U	McGoy Park	6	1N	17E	10,680
U	U	Middle Beaver Creek	31	3N	14E	8,650
U	U	Reynolds Park	9	1S	18E	10,400
U	U	Spirit Lake	10	1N	17E	10,300
U	U	Steel Creek Park	17	2N	13E	10,100
U	U	Trout Creek	9	1S	20E	9,400
U	U	Windy Park	2	1S	20E	9,400

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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